PTO/SB/0BA (10-01)

Approved for use through 10/81/2002. OMB 0e31-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and U.S. DEPARTMENT OF COMMERCE

U.S.

Chulch and Laberaday (Transport)				
ontrol number.	Complete	If Known		
Substitute for form 1449A/PTO	Application Number	10/781.192		
	Filing Date	02/18/2004		
INFORMATION DISCLOSURE	First Named Inventor	Backes		
STATEMENT BY APPLICANT				
(use as many sheets as necessary)	Art Unit	Unknown		
·	Examiner Name			
Shoot 1 Of 1	Attorney Docket Number	160-017		
Sheet 1 DI				

	_		U.S. PATE	NT DOCUMENTS	Pages, Columns, Lines, Where
Examiner Milals	ČRD No.1	Document Number Number - Kind Code ² (Fissown)	Publication Date NMA-DD-YYYY	Name of Patentee or Applicant of Clied Document	Relevant Possages of Relevant Figures Appear
TIV		US-6,795,407	09/21/2004	Chesson	
	_	US-6,870,815	09/22/2005	McFarland et al.	
-1m3	 	US-02/0,013			
	—	US-			
	} 				
	 	US-			
	-	US			
		U\$	 		
	╀	US	· · · · · ·		
	↓	us	}		
	1 —	US-	 	T	
	 	US			
		us	 		
		US		· · · · · · · · · · · · · · · · · · ·	
-	Τ	US	 		
6		US-	<u> </u>		
-		US-	<u> </u>		.
1 1	1	US	<u> </u>		
	1	US-			
	1	US-	J		
	1	US-			

			N PATENT DOC	Y	Pages, Columns, Lines,	T
Examiner	Cite	Foreign Palent Occument	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages of Relevant Figures Appear.	7
bilials	No."	Country Code ³ - Number ⁴ - Kind Code ⁵ (V known)				
	<u> </u>					
						Т
	Ī					T
. :						╅
	1			}		-
	1					十
	 					+
					····	+
	—					╌
	+					4
						_
Examin	er	1 10 - M Bas	mes_	Dala Considered	1 19/16/12	

"EXAMNER: Initial if reference considered, whether or not cliation is in conformance with MPEP 609. Draw line through cliation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

Applicant's unique citation designation of the year of Enter Office that issued the document, by the holdest of the year of Enter Office that issued the document, by the appropriate symbols as indicated on the the reign of the English language Transhillen is attached, document under WIPO Standard ST. 16 if possibles. "Applicant is to place a check mark here if English language Transhillen is attached, document under WIPO Standard ST. 16 if possibles. "Applicant is to place a check mark here if English language Transhillen is attached, document. This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any Burden Hour Statement. This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any Burden Hour Statement. This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any Burden Hour Statement. This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any Washington, DC 20231. Do NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patentis, Washington, DC 20231.

Signature

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
k Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB Under the Paperly

Substitute	Substitute for form 1449A/PTO		Complete if Known		
				Application Number	10/781,192
INF	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Filing Date	2/18/2004
STA				First Named Inventor	Backes
(u	se as many she	eets as nec	essary)	Art Unit	
				Examiner Name	Not yet known
Sheet	1	of	1	Attorney Docket Number	160-017

			U.S. PATE	NT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1m13		US-5,493,694	02/20/1996	Vicek et al.	
MB	<u> </u>	US-6,266,537	07/24/2001	Kashitani et al.	
mic	<u> </u>	US-2004/0054767	03/18/2004	Karaoguz et al.	
		US-			
		US-			
		US-			
	<u> </u>	US-		·	
		US-			
		US-			1.0
		US-			
	:	US-			
		US-			
		US-			
		US-	1		

		FOREIG	N PATENT DOC	UMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Ţ,
	<u>:</u>					1
						+
		THE STREET CONTRACTOR OF THE STREET				\downarrow
						\downarrow
			· <u>·····</u>			1
xamine	er	I la And Q		Date	10/11/05	_

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB

Substitute	Substitute for form 1449A/PTO		Complete if Known		
				Application Number	10/781,192
INF	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Filing Date	2/18/2004
STA				First Named Inventor	Backes
(L	ise as many she	ets as nece	essary)	Art Unit	
	. <u>.</u> <u>-</u>			Examiner Name	Not yet known
Sheet	1	of	1	Attorney Docket Number	160-017

			U.S. PATE	NT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ² (il known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TMB		US-5,963,848	10/05/1999	D'Avello	
mis		US-5,606,727	02/25/1997	Ueda	
	<u></u>	US-			
		US-			
	L	US-		•	
		US-			
		UŞ-			
	٠,	US-			
	:	US-			
		US-			
	L	US			
	ļ	US-			
		US			
		US-			
		US-	<u> </u>		

FOREIGN PATENT DOCUMENTS										
Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁸ (Il known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7					
					I					
					\perp					
					╀					
					#					
					╁					
j.					F					
		Foreign Patent Document Cite	Cite Foreign Patent Document Publication Date	Cite Foreign Patent Document Publication Date Name of Patentee or	Foreign Patent Document Publication Date Name of Patentee or Pages, Columns, Lines, Where Relevant Passages					

<u>100.49</u> *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

Date

Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Examiner

Signature

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Transmitter United U.S. DEFARTMENT OF COMMENCE (U.S. DEFARTMENT OF COMMENCE (U.S. DEFARTMENT OF COMMENCE (U.S. Patent and Transmitter United (U.S. DEFARTMENT) OF COMMENCE (U.S. Patent and Transmitter (U.S. DEFARTMENT) OF COMMENCE (U.S. Patent and Transmitter (U.S. DEFARTMENT) OF COMMENCE (U.S. Patent and Transmitter (U.S. DEFARTMENT) OF COMMENCE (U

Substitute f	Substitute for form 1449A/PTO		Complete if Known			
				Application Number	10/781192	_
INFORMATION DISCLOSURE			URE	Filing Date	2/18/2004	_
STA	STATEMENT BY APPLICANT			First Named Inventor	Backes	_
(use	as many she	ets as neces	sary)	Art Unit		
				Examiner Name		
Sheet	1	of	2	Attorney Docket Number	160-017	_

			U.S. PATE	NT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TIME	<u></u>	US- 2004/0137915 A1	7/15/2004	Diener et al.	
	1	US- 2003.0207699 A1	11/6/2003	Shpak	
		US- 2002/0193113 A1	12/19/2002	Shibutani	I
		US- 2002/0141375 A1	10/3/2002	Choi	I
		US- 2003/0022686 A1	1/30/2003	Scomro et al.	I
		US- 2002/0176437 A1	11/28/2002	Busch et al.	I
		US- 2003/0002456 A1	1/2/2003	Soomro et al.	
I	<u> </u>	US- 2002/0060995 A1	5/23/2002	Cervello et al.	
	1	US- 6,741,863 B1	5/25/2004	Chiang et al.	
	I	US- 6,560,462 B1	5/6/2003	Ravi et al.	
		US- 6,332,007 B1	12/18/2001	Wu et al.	
	I	US- 6,208,629 B1	3/27/2001	Jaszewski et al.	*
		US- 6,198,924 B1	3/6/2001	Ishii et al.	*
	I	US- 6,760,748 B1	7/6/2004	Hakim	
		US- 6,111,867	12/12/1997	Mann	***************************************
I		US- 6,574,477	10/6/1999	Rathunde	
I		US- 6,574,474	5/20/1999	Nielson	
I		US- 6,732,163	1/5/2000	Halasz	
1	I	US- 6,215,779	9/22/1998	Bender	
7	7	US- 6,636,737	4/10/2000	Hills	
1		US- 6,738,599	3/14/2002	Black	
$\mathbf{\Psi}_{\cdot}$:	US- 6,522,881	3/8/2000	Feder	
TMB	-	US- 6,208,629	3/10/1999	Jaszewski	

	FOREIGN PATENT DOCUMENTS											
Eurominas	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Т						
Examiner Initials*	No.1		MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ⁴						
	<u> </u>											
						T						
	I				**************************************	† '''''						
					\$144.00 151.00 0000 \$141.00 001.00 001.00 100 100 100 100 100 1	1						
	Ţ <u>.</u>		*****************	***************************************	***************************************	† *****						
	T	***************************************	***************************************	***************************************	***************************************	! ''''						
*************	1	**************************************	***************************************	***********************************	**************************************	ł						
************	†	***************************************	***************************************	***************************************	442-1	†						
*************	† ********		***************************************	***************************************								
				<u> </u>		_						
Examine	er	1 10 A //		Date								

Signature Considered

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language

as intracted on the document under WIPO Standard S1. To if possible. "Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB

Substi	tute for form 1449B/P	PTO		Comple	Complete if Known		
				Application Number	10/781192		
	INFORMATION D	DISC	LOSURE	Filing Date	2/18/2004		
	STATEMENT BY			First Named Inventor	Backes		
	(use as many sheet			Group Art Unit			
	<u> </u>			Examiner Name			
Sheet	2	of	2	Attorney Docket Number	160-017		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite _i No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city end/or country where published.	τ²			
TMB		IEEE, Wireless LAN Mediumi Access Control (MAC) and Physical Layer (PHY) specifications, Standard 802.11, 1999 edition, Reference number ISO/IEC 8802-11:1999(E), 528 Pages.				
MB		MICHAEL BARR, "Toward a Smaller Java", Embedded.com, June 14, 2002, Pages 1-9.				
TMB		Moustafa Youssef, "Handling Samples Correlation in the Horus System", IEEE INFOCOM 2004				
MB		Kin K. Leung, "Integrated Link Adaptation and Power Control for Wireless IP Networks", AT&T Labs – research , January 19, 2000.				
TMB		Ana Zapater et. Al., "Development and Implementation of a Bluetooth Networking Infrastructure for the a Notebook – University Scenario", Institute of Communications Engineering, University of Hannover, May 13, 2003.	*******			
TMB	:	Walter Klotz, "Graph Coloring Algorithms", 1999.	*******			
TMB		Brent N. Chun et. Al., "Market-based Proportional esource Sharing for Clusters", University of California at Berkeley computer Science Division, September 1999.	******			
TMB		The Four Color Theorem, Web page, author(s) unknown, updated November 13, 1995.	•••••			
			•••••			
****************	*********					
	لين					

Examiner Signature	1,	Semmer Benner	Date Considered	10	16/05
	_			_	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.